

Claims

1. A steering column module for vehicles having a steering wheel, the module comprising:
 - a stationary signal transmission case component;
 - a rotatable signal transmission case component mounted in said stationary component for secure mutual rotation with the steering wheel;
 - a steering angle sensor for measuring a steering angle of the steering wheel; and
 - a rotatable code disc borne by said steering angle sensor for secure mutual rotation with the steering wheel.
2. The steering column module of claim 1, wherein said code disc cooperates with said rotatable case component for secure mutual rotation therewith.
3. The steering column module of claim 2, wherein one of said code disc and said rotatable case component comprises at least one projection extending in an axial direction which engages in at least one associated recess, extending in the radial direction, in an other of said rotatable case component and said code disc.
4. The steering column module of claim 3, wherein said at least one projection is a pin which is eccentrically disposed and extends in an axial direction, and wherein

said at least one associated recess is a slot extending in a radial direction.

5. The steering column module of claim 1, wherein said steering angle sensor comprises a carrier within which said code disc is radially secured and rotatably disposed.
6. The steering column module of claim 1, wherein said steering angle sensor comprises a casing within which said code disc is radially secured and rotatably disposed.
7. The steering column module of claim 1, wherein said steering angle sensor comprises a bearing piece having a bearing ring in which said code disc is disposed.
8. The steering column module of claim 1, wherein said steering angle sensor comprises a carrier, bearing a scanning device for scanning said code disc.
9. The steering column module of claim 1, wherein said code disc has rotary angle encoding disposed on an end face thereof.
10. The steering column module of claim 1, wherein said code disc has holes constituting rotary angle encoding.

11. The steering column module of claim 1, wherein said code disc has a rotary angle encoding disposed on an outer surface thereof.
12. The steering column module of claim 1, further comprising at least one steering column switch.
13. The steering column module of claim 12, wherein a first steering column switch cooperates in a modular fashion with at least one of said stationary transmission case component, said steering angle sensor, said rotatable transmission case, a second steering column switch, and a third steering column switch.
14. The steering column module of claim 13, wherein at least one of said stationary transmission case component and said rotatable transmission case component has a first evaluation electronics, and wherein said steering angle sensor has a second evaluation electronics disposed in close proximity to said first evaluation electronics.
15. The steering column module of claim 12, wherein a first steering column switch actuates a blinker and has a blinker returning position which can be controlled by said steering angle sensor.